PATENT



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Vogels et al.

Serial No.: 10/002,750

Filed: 11/15/2001

For: COMPLEMENTING CELL LINES

Confirmation No.: 5853

Examiner: To be assigned

Group Art Unit: 1648

Attorney Docket No.: 2183-5148US

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STATEMENT UNDER 37 C.F.R. §§ 1.821 THROUGH 1.825

Commissioner for Patents Washington, D.C. 20231

Sir:

- I, Tawni L. Wilhelm, an attorney registered to practice before the United States Patent & Trademark Office and attorney of record for this application, state that:
- The enclosed paper copy of the substitute SEQUENCE LISTING, as well as the enclosed 1. copy of the substitute SEQUENCE LISTING in computer readable form (CRF), are included herewith to comply with the requirements of 37 C.F.R. §§ 1.821 and/or 1.825 as requested by the Examiner.
- 2. The enclosed copy of the substitute SEQUENCE LISTING in computer readable form (CRF) is believed to be the same as the paper copy of the substitute SEQUENCE LISTING.

Serial No.: 10/002,750

3. The SEQUENCE LISTINGS submitted herewith are believed to contain no "new matter" with regard to the referenced patent application.

Respectfully submitted,

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Date: May 31, 2002

ACT/bv

ART (110) Vocala Popold	SEQUENCE LISTING
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<130> P58204US10	
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His Lys Asn Arg Leu Leu Leu Ser Ser Val Arg Pro Ala Ile Ile
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Pro Thr Glu Glu Gln Gln Gln Gln Glu Glu Ala Arg Arg Arg Arg
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Thr Phe Ile Leu Asp Lys Trp Ile Pro Gln Thr His Phe Ser Arg Gly
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<212> PRT

<213> adenoviridae

<220>

<221> SITE

<222> (1)..(494)

<223> /note="pCC536s E1B-55K sequence"

<400> 48

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Gly His Ala Ser Val Glu Ser Gly Cys Glu Thr Gln Glu Ser Pro Ala 20 25 30

Thr Val Val Phe Arg Pro Pro Gly Asp Asn Thr Asp Gly Gly Ala Ala 35 40 45

Ala Ala Ala Gly Gly Ser Gln Ala Ala Ala Ala Gly Ala Glu Pro Met 50 55 60

Glu Pro Glu Ser Arg Pro Gly Pro Ser Ser Gly Gly Gly Val Ala 65 70 75 80

Asp Leu Ser Pro Glu Leu Gln Arg Val Leu Thr Gly Ser Thr Ser Thr 85 90 95

Gly Arg Asp Arg Gly Val Lys Arg Glu Arg Ala Ser Ser Gly Thr Asp 100 105 110

Ala Arg Ser Glu Leu Ala Leu Ser Leu Met Ser Arg Arg Pro Glu 115 120 125

Thr Ile Trp Trp His Glu Val Gln Lys Glu Gly Arg Asp Glu Val Ser 130 135 140

Va:		u Gl	n Gl	u Ly	s Ty 15		er	Leu	Glu	Glr	155	-	Thr	Cys	Trp	Leu 160
Glı	ı Pro	o Gl	u As	sp As 16		mp A	la	Val	Ala	11e	_	s Asn	Туг	Ala	Lys 175	Ile
Ala	a Lei	ı Ar	g Pr 18		sp Ly	rs G	ln	Tyr	Lys 185		e Ser	Arg	Arg	1le 190		Ile
Arg	g Ası	19		т Ту	r Il	e S	er	Gly 200		Gly	Ala	Glu	Val 205		Ile	Asp
Thr	Glr 210	_	р Гу	s Th	r Va		le 15	Arg	Cys	Cys	Met	Met 220		Met	Trp	Pro
Gly 225		. Vai	l Gl	y Me	t Gl 23		la	Val	Thr	Phe	Val 235		Val	Lys	Phe	Arg 240
Gly	Asp	Gly	у Ту:	r As 24		y I	le	Val	Phe	Met 250		Asn	Thr	Lys	Leu 255	Ile
Leu	His	Gly	260		r Ph	e Pł	ne	Gly	Phe 265	Asn	Asn	Thr	Cys	Val 270	Asp	Ala
Trp	Gly	Glr 275		l Se:	r Vai	l Ar	g	Gly 280	Cys	Ser	Phe	Tyr	Ala 285	Cys	Trp	Ile
Ala	Thr 290		Gly	y Arg	g Thi	29		Ser	Gln	Leu	Ser	Leu 300	Lys	Lys	Cya	Ile
Phe 305	Gln	Arg	Суз	s Ası	1 Leu 31(·Y	Ile	Leu	Asn	Glu 315	Gly	Glu	Ala	Arg	Val 320
				325	5					330				Ile	335	_
			340						345		_			350		Arg
	_	355					:	360		_		-	365			Ala
Thr	Val 370	His	Ile	Val	Ser	Hi 37		Gln	Arg	Lys	ŗys	Trp 380	Pro	Val	Phe	Asp
385					390						395	-	•	Arg		400
Met	Phe	Met	Pro	Tyr 405	Gln	Сy	s A	Asn :	Met	Asn 410	His	Val	Lys	Val	Leu 415	Leu
Glu	Pro	Asp	Ala 420	Phe	Ser	Arg	g N		Ser 425	Leu	Thr	Gly	Ile	Phe 430	Asp	Met
Asn		Gln 435	Ile	Trp	Lys	Ile		Leu 140	Arg	Tyr	Asp	Asp	Thr 445	Arg	Ser	Arg
	Arg 450	Ala	Cys	Glu	Cys	Gly 455		ly :	Lys	His	Ala	Arg 460	Phe	Gln	Pro	Val
Cys 465	Val	Asp	Val	Thr	Glu 470	Asp	, I	Leu I	Arg		Asp 475	His	Leu	Val	Ile	Ala 480

Arg Thr Gly Ala Glu Phe Gly Ser Ser Gly Glu Glu Thr Asp

<210> 49 <211> 494 <212> PRT <213> adenoviridae <220> <221> SITE <222> (1)..(494) <223> /note="Ad35. E1B-55K sequence" <400> 49 Met Asp Pro Ala Asp Ser Phe Gln Gln Gly Ile Arg Phe Gly Phe His Ser His Ser Ile Val Glu Asn Met Glu Gly Ser Gln Asp Glu Asp Asn Leu Arg Leu Leu Ala Ser Ala Ala Phe Gly Cys Ser Gly Asn Pro Glu Ala Ser Thr Gly His Ala Ser Gly Ser Gly Gly Gly Thr Ala Arg Gly Gln Pro Glu Ser Arg Pro Gly Pro Ser Ser Gly Gly Gly Val Ala Asp Leu Ser Pro Glu Leu Gln Arg Val Leu Thr Gly Ser Thr Ser Thr Gly Arg Asp Arg Gly Val Lys Arg Glu Arg Ala Ser Ser Gly Thr Asp Ala Arg Ser Glu Leu Ala Leu Ser Leu Met Ser Arg Arg Pro Glu Thr Ile Trp Trp His Glu Val Gln Lys Glu Gly Arg Asp Glu Val Ser

Val Leu Gln Glu Lys Tyr Ser Leu Glu Gln Val Lys Thr Cys Trp Leu

Glu Pro Glu Asp Asp Trp Ala Val Ala Ile Lys Asn Tyr Ala Lys Ile

Ala Leu Arg Pro Asp Lys Gln Tyr Lys Ile Ser Arg Arg Ile Asn Ile

Arg Asn Ala Cys Tyr Ile Ser Gly Asn Gly Ala Glu Val Val Ile Asp

Thr Gln Asp Lys Thr Val Ile Arg Cys Cys Met Met Asp Met Trp Pro

Gly Val Val Gly Met Glu Ala Val Thr Phe Val Asn Val Lys Phe Arg

Gly Asp Gly Tyr Asn Gly Ile Val Phe Met Ala Asn Thr Lys Leu Ile

Leu His Gly Cys Ser Phe Phe Gly Phe Asn Asn Thr Cys Val Asp Ala 260 265 270

Trp Gly Gln Val Ser Val Arg Gly Cys Ser Phe Tyr Ala Cys Trp Ile 275 280 285

Ala Thr Ala Gly Arg Thr Lys Ser Gln Leu Ser Leu Lys Lys Cys Ile 290 295 300

Phe Gln Arg Cys Asn Leu Gly Ile Leu Asn Glu Gly Glu Ala Arg Val 305 310 315 320

Arg His Cys Ala Ser Thr Asp Thr Gly Cys Phe Ile Leu Ile Lys Gly 325 330 335

Asn Ala Ser Val Lys His Asn Met Ile Cys Gly Ala Ser Asp Glu Arg 340 345 350

Pro Tyr Gln Met Leu Thr Cys Ala Gly Gly His Cys Asn Met Leu Ala 355 360 365

Thr Val His Ile Val Ser His Gln Arg Lys Lys Trp Pro Val Phe Asp 370 380

His Asn Val Leu Thr Lys Cys Thr Met His Ala Gly Gly Arg Arg Gly 385 390 395 400

Met Phe Met Pro Tyr Gln Cys Asn Met Asn His Val Lys Val Leu Leu 405 410 415

Glu Pro Asp Ala Phe Ser Arg Met Ser Leu Thr Gly Ile Phe Asp Met 420 425 430

Asn Thr Gln Ile Trp Lys Ile Leu Arg Tyr Asp Asp Thr Arg Ser Arg 435 440 445

Val Arg Ala Cys Glu Cys Gly Gly Lys His Ala Arg Phe Gln Pro Val 450 455 460

Cys Val Asp Val Thr Glu Asp Leu Arg Pro Asp His Leu Val Ile Ala 465 470 475 480

Arg Thr Gly Ala Glu Phe Gly Ser Ser Gly Glu Glu Thr Asp 485 490

<210> 50

<211> 496

<212> PRT

<213> adenoviridae

<220>

<221> SITE

<222> (1)..(496)

<223> /note="Ad5. E1B-55K sequence"

<400> 50

Met Glu Arg Arg Asn Pro Ser Glu Arg Gly Val Pro Ala Gly Phe Ser 1 1 5 15

Gly His Ala Ser Val Glu Ser Gly Cys Glu Thr Gln Glu Ser Pro Ala 20 25 30

- Thr Val Val Phe Arg Pro Pro Gly Asp Asn Thr Asp Gly Gly Ala Ala
 35 40 45
- Ala Ala Gly Gly Ser Gln Ala Ala Ala Ala Gly Ala Glu Pro Met
 50 55 60
- Glu Pro Glu Ser Arg Pro Gly Pro Ser Gly Met Asn Val Val Gln Val 65 70 75 80
- Ala Glu Leu Tyr Pro Glu Leu Arg Arg Ile Leu Thr Ile Thr Glu Asp 85 90 95
- Gly Gln Gly Leu Lys Gly Val Lys Arg Glu Arg Gly Ala Cys Glu Ala 100 105 110
- Thr Glu Glu Ala Arg Asn Leu Ala Phe Ser Leu Met Thr Arg His Arg 115 120 125
- Pro Glu Cys Ile Thr Phe Gln Gln Ile Lys Asp Asn Cys Ala Asn Glu 130 135 140
- Leu Asp Leu Leu Ala Gln Lys Tyr Ser Ile Glu Gln Leu Thr Thr Tyr 145 150 155 160
- Trp Leu Gln Pro Gly Asp Asp Phe Glu Glu Ala Ile Arg Val Tyr Ala 165 170 175
- Lys Val Ala Leu Arg Pro Asp Cys Lys Tyr Lys Ile Ser Lys Leu Val 180 185 190
- Asn Ile Arg Asn Cys Cys Tyr Ile Ser Gly Asn Gly Ala Glu Val Glu 195 200 205
- Ile Asp Thr Glu Asp Arg Val Ala Phe Arg Cys Ser Met Ile Asn Met 210 215 220
- Trp Pro Gly Val Leu Gly Met Asp Gly Val Val Ile Met Asn Val Arg 225 230 235 240
- Phe Thr Gly Pro Asn Phe Ser Gly Thr Val Phe Leu Ala Asn Thr Asn 245 250 255
- Leu Ile Leu His Gly Val Ser Phe Tyr Gly Phe Asn Asn Thr Cys Val 260 265 270
- Glu Ala Trp Thr Asp Val Arg Val Arg Gly Cys Ala Phe Tyr Cys Cys 275 280 285
- Trp Lys Gly Val Val Cys Arg Pro Lys Ser Arg Ala Ser Ile Lys Lys 290 295 300
- Cys Leu Phe Glu Arg Cys Thr Leu Gly Ile Leu Ser Glu Gly Asn Ser 305 310 315 320
- Arg Val Arg His Asn Val Ala Ser Asp Cys Gly Cys Phe Met Leu Val 325 330 335
- Lys Ser Val Ala Val Ile Lys His Asn Met Val Cys Gly Asn Cys Glu 340 345 350
- Asp Arg Ala Ser Gln Met Leu Thr Cys Ser Asp Gly Asn Cys His Leu 355 360 365

Leu Lys Thr Ile His Val Ala Ser His Ser Arg Lys Ala Trp Pro Val 370 380

Phe Glu His Asn Ile Leu Thr Arg Cys Ser Leu His Leu Gly Asn Arg 385 390 395 400

Arg Gly Val Phe Leu Pro Tyr Gln Cys Asn Leu Ser His Thr Lys Ile 405 410 415

Leu Leu Glu Pro Glu Ser Met Ser Lys Val Asn Leu Asn Gly Val Phe 420 425 430

Asp Met Thr Met Lys Ile Trp Lys Val Leu Arg Tyr Asp Glu Thr Arg 435 440 445

Thr Arg Cys Arg Pro Cys Glu Cys Gly Gly Lys His Ile Arg Asn Gln
450 455 460

Pro Val Met Leu Asp Val Thr Glu Glu Leu Arg Pro Asp His Leu Val 465 470 475 480

Leu Ala Cys Thr Arg Ala Glu Phe Gly Ser Ser Asp Glu Asp Thr Asp 485 490 495

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Response to Notice to File Missing Parts of Nonprovisional Application (2 pages); Copy of Notice to File Missing Parts of Nonprovisional Application (2 pages); Check No. 2460 for \$65.00 (for surcharge); Declaration (4 pages); Petition for Extension of Time (1 page) (in duplicate); Check No. 2459 for \$200.00 (for petition for extension of time for two months); Formal Drawings (38 sheets, 38 figures); Second Preliminary Amendment (2 pages); Statement Under 37 C.F.R. §§ 1.821 through 1.825 (2 pages) with Sequence Listing and CRF disk of Sequence Listing

Invention:

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Applicant(s):

Vogels et al.

Filing Date:

November 15, 2001

Serial No.:

10/002,750

Date Sent:

May 31, 2002 via Express Mail Label No.

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Docket No.:

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2183-5148US





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